

Omnivision Wis

Panasonic

Combination VCR
Operating Instructions
Models No. PV-C920 / PV-C930W



As an ENERGY STAR® Partner, Matsushita Electric Corporation of America has determined that this product or product model meets the ENERGY STAR® guidelines for energy efficiency.



















Please read these instructions carefully before attempting to connect, operate or adjust this product. Please save this manual.

Spanish Quick Use Guide is included. (Guia para rápida consulta en español está incluida.)

Important Safeguards and Precautions

READ AND RETAIN ALL SAFETY AND OPERATING INSTRUCTIONS. HEED ALL WARNINGS IN THE MANUAL AND ON UNIT

INSTALLATION

1 POWER SOURCE CAUTION

Operate only from power source indicated on unit or in this manual. If uncertain, have your Electric Utility Service Company or Video Products Dealer verify your home power source.

2 POWER CORD PLUG

For safety, this unit has a polarized type plug (one wide blade), or a three-wire grounding type plug. Always hold the plug firmly and make sure your hands are dry when plugging in or unplugging the AC power cord. Regularly remove dust, dirt, etc. on the plug.

POLARIZED PLUG CAUTION:

The plug fits into outlet one way. If it cannot be fully inserted, try reversing it. If it still will not fit, have an electrician install the proper wall outlet. Do not tamper with the plug.

GROUNDING PLUG CAUTION:

The plug requires a three-hole grounding outlet. If necessary, have an electrician install the proper outlet. Do not tamper with the plug.

3 POWER CORD

To avoid unit malfunction, and to protect against electrical shock, fire or personal injury:

- Keep power cord away from heating appliances and walking traffic. Do not rest heavy objects on, or roll such objects over the power cord.
- Do not tamper with the cord in any way.
- An extension cord should have the same type plug (polarized or grounding) and must be securely connected.
- Overloaded wall outlets or extension cords is a fire hazard.
- Frayed cords, damaged plugs, and damaged or cracked wire insulation are hazardous and should be replaced by a qualified electrician.

4 DO NOT BLOCK VENTILATION HOLES

Ventilation openings in the cabinet release heat generated during operation. If blocked, heat build-up may result in a fire hazard or heat damage to cassettes.

For your protection:

- a. Never cover ventilation slots while unit is ON, or operate unit while placed on a bed, sofa, rug, or other soft surface.
- Avoid built-in installation, such as a book case or rack, unless properly ventilated.

5 AVOID EXTREMELY HOT LOCATIONS OR SUDDEN TEMPERATURE CHANGES

Do not place unit over or near a heater or regulator, in direct sunlight, etc. If unit is suddenly moved from a cold place to a warm place, moisture may condense in unit and on the tape causing damage.

6 TO AVOID PERSONAL INJURY

Never place unit on support or stand that is not firm, level, and adequately strong.

The unit could fall causing serious injury to a child or adult and damage to the unit.

 Move any appliance and cart combination with care.

Quick stops, excessive force, and

uneven surfaces may cause objects to overturn.

• Carefully follow all operating instructions.

OUTDOOR ANTENNA INSTALLATION

1 SAFE ANTENNA AND CABLE CONNECTION

An outside antenna or cable system must be properly grounded to provide some protection against built up static charges and voltage.

Section 810 of the National Electrical Code, ANSI/NFPA 70 (in Canada, part 1 of the Canadian Electrical Code) provides information

regarding proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

2 KEEP ANTENNA CLEAR OF HIGH VOLTAGE POWER LINES OR CIRCUITS

Locate an outside antenna system well away from power lines and electric light or power circuits so it will never touch these power sources should it ever fall. When installing antenna, absolutely never touch power lines, circuits or other power sources as this could be fatal.

USING THE UNIT

Before unit is brought out of storage or moved to a new location, refer again to the INSTALLATION section of these safeguards.

- 1 KEEP UNIT WELL AWAY FROM WATER OR MOISTURE, such as vases, sinks, tubs, etc.
- 2 IF EXPOSED TO RAIN, MOISTURE, OR STRONG IMPACT, unplug unit and have it inspected by a qualified service technician before use.

3 ELECTRICAL STORMS

During a lightning storm, or before leaving unit unused for extended periods of time, disconnect all equipment from the power source as well as the antenna and cable system.

4 WHEN UNIT IS PLUGGED IN

- DO NOT OPERATE IF:
- liquid has spilled into unit.
- unit was dropped or otherwise damaged.
- unit emits smoke, malodors, or noises.

Immediately unplug unit, and have it inspected by a service technician to avoid potential fire and shock hazards.

- Never drop or push any object through openings in unit.
 Touching internal parts may cause electric shock or fire hazard.
- Keep magnetic objects, such as speakers, away from unit to avoid electrical interference.

5 USING ACCESSORIES

Use only accessories recommended by the manufacturer to avoid risk of fire, shock, or other hazards.

6 CLEANING UNIT

Unplug unit. Use a clean, dry, chemically untreated cloth to gently remove dust or debris. DO NOT USE cleaning fluids, aerosols, or forced air that could over-spray, or seep into unit and cause electrical shock. Any substance, such as wax, adhesive tape, etc. may mar the cabinet surface. Exposure to greasy, humid, or dusty areas may adversely affect internal parts.

SERVICE

1 DO NOT SERVICE PRODUCT YOURSELF

If, after carefully following detailed operating instructions, the unit does not operate properly, do not attempt to open or remove covers, or make any adjustments not described in the manual. Unplug unit and contact a qualified service technician.

2 REPLACEMENT OF PARTS

Make sure the service technician uses only parts specified by the manufacturer, or have equal safety characteristics as original parts. The use of unauthorized substitutes may result in fire, electric shock, or other hazards.

3 SAFETY CHECK AFTER SERVICING

After unit is serviced or repaired, request that a through safety check be done as described in the manufacturer's service literature to insure video unit is in safe operating condition.

Safety Precautions/Mesures de sécurité

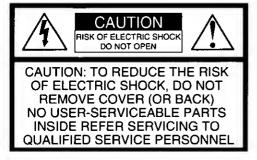
Warning: To prevent fire or shock hazard, do not expose this equipment to rain or moisture. Caution: To prevent electric shock, match wide blade of plug to wide slot, fully insert. Avertissement: Afin de prévenir tout risque d'incendie ou de chocs électriques, ne pas exposer cet appareil à la pluie ou à une humidité excessive.

Attention: Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.

This video recorder, equipped with the HQ (High Quality) System, is compatible with existing VHS equipment.

Only use those tapes with the WHS mark. It is recommended that only cassette tapes that have been tested and inspected for use in 2, 4, 6, and 8 hour VCR machines be used. This television receiver provides display of television closed captioning in accordance with §15.119 of the FCC rules.

FCC WARNING: Any unauthorized changes or modifications to this equipment would void the user's authority to operate.







This symbol warns the user that uninsulated voltage within the unit may have sufficient magnitude to cause electric shock. Therefore, it is dangerous to make any kind of contact with any inside part of this unit.

This symbol alerts the user that important literature concerning the operation and maintenance of this unit has been included. Therefore, it should be read carefully in order to avoid any problems.

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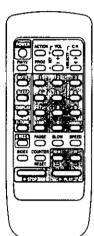
Before Using

Congratulations

on your purchase of one of the most sophisticated and reliable products on the market today. Used properly, it will bring you and your family years of enjoyment. Please fill in the information below. The serial number is on the tag located on the back of your unit.

Date of Purchase
Dealer Purchased From
Dealer Address
Dealer Phone No.
Model No
Serial No.

Accessories



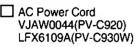
- Remote Control LSSQ0224 (PV-C920) LSSQ0225 (PV-C930W)
- Batteries 2 "AA"
- ☐ Indoor Antenna TSA700009



300 ohm-75 ohm Transformer VSQS0974









DC Car Cord (2m) LFX6301A

For model PV-C930W only

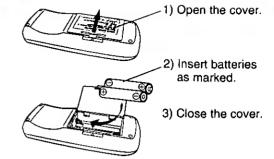




- Kitchen (Easy-Find™) Remote control (VSQS1572) with one CR2025 Battery
 - The Kitchen remote control has been loaded with battery.

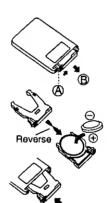
To order accessories, call toll free 1-800-332-5368.

Loading the Batteries



■ Battery replacement caution

- . Do not mix old and new batteries.
- · Do not mix alkaline with manganese batteries.

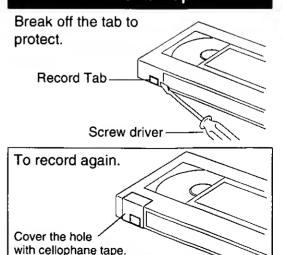


Kitchen (Easy-Find™) Remote Control <For model PV-C930W only>

- A While pressing the stopper tab, B pull the Battery Tray out.
- Insert the battery into the Battery Tray with the ⊕ mark facing down.
 Do not reverse the polarity.
- 3) Replace the Battery Tray.

Replace battery with Panasonic PART NO. VSBW0004 (CR2025) only. Use of another battery may present a risk of fire or explosion. Caution-battery may explode if mistreated. Dispose of used battery promptly. Keep away from children. Do not recharge, disassemble or dispose of in fire.

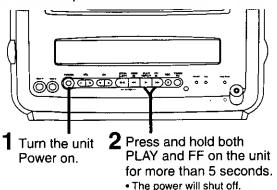
Prevent Accidental Tape Erasure



Reset all unit Memory Functions

Use when moving unit to a new location, or if a mistake was made in the One Time Setup section.

. Make sure a tape is not inserted in the unit.



3 Do "One Time Setup" Steps on page 10.

Head Cleaning

Playing older or damaged tapes may eventually cause video heads to become clogged.

Head Clog Sensor

During playback this screen appears if clogging is detected. To remove screen, press PLAY on the remote or unit.

VIDEO HEADS MAY

END:PLAY KEY

NEED CLEANING PLEASE INSERT HEAD CLEANING CASSETTE OR REFER TO MANUAL

- Use "dry" type head cleaning cassette only. (Part No. NV-TCL30PT is recommended.)
- Follow cleaning tape directions carefully. Excessive use of

tape can shorten head life.

• If head clog symptoms

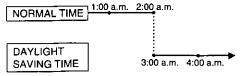
persist, contact your nearest Factory Service Center or authorized Service Center. (See Page 41.)

DST (Daylight Saving Time)

Unit auto adjusts clock for DST (Daylight Saving Time).

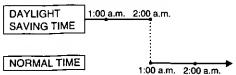
Spring (First Sunday in April)

DST:ON → Sets clock ahead one hour.



Autumn (Last Sunday in October)

DST:ON → Turns clock back one hour.



- If your area does not observe Daylight Saving Time, select DST:OFF.
- Keep these time changes in mind when programming the unit for timer recordings.

Record/Playback Time

Only use tapes with the **VHS** mark in this unit.

Tape Speed	Type of Video Cassette		
Setting	T60	T120	T160
SP (Standard Play)	1 Hour	2 Hours	2 Hours 40 Minutes
LP (Long Play)	2 Hours	4 Hours	5 Hours 20 Minutes
SLP (Super Long Play)	3 Hours	6 Hours	8 Hours

Specifications

Display

Picture Tube: 9 inch measured diagonal 90 °

deflection Picture Tube

VCF

Video Recording System: 2 rotary heads helical scanning

system

Audio Track: 1 track

Tuner:

Broadcast Channels: VHF 2 ~ 13, UHF 14 ~ 69 CABLE Channels: Midband A through I (14 ~ 22)

Superband J through W (23 ~ 36) Hyperband AA ~ EEE (37 ~ 64) Lowband A-5 ~ A-1 (95 ~ 99) Special CABLE channel 5A (01) Ultraband 65 ~ 94, 100 ~ 125

FM Radio

Band range: 87.5 ~ 108.1 MHz

General

Power Source: 120 V AC, 60 Hz (AC)

12 V / 24 V (DC)

Power Consumption: Power on

Approx. 63 watts (AC) Approx. 59 watts (DC)

Power off

Approx. 3.5 watts (AC) Approx. 0.8 watts (DC 12V) Approx. 1.5 watts (DC 24V)

Television System: EIA Standard NTSC color

Speaker: 1 piece

Operating Temperature: 5 °C ~ 40 °C (41 °F ~ 104 °F)

Operating Humidity: 10 % ~ 75 % Weight: 9.1 Kg (20.1 lbs.)

Dimensions: 11-7/8" (W) X 12-7/8" (H) X

13-3/16" (D)

302 (W) X 327 (H) X 335 (D) mm

Note: Designs and specifications are subject to change without notice.

Connections

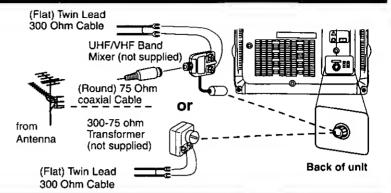
Outdoor Antenna Connections

Unhook the antenna from your previous TV or VCR and connect it to the back of the unit as shown in the diagram.

If your antenna system has separate UHF and VHF lead-ins, you need a UHF/VHF Band Mixer (not supplied.)

WARNING:

When using "Nut type" RF coaxial cables, tighten with fingers only. Overtightening may damage terminals.

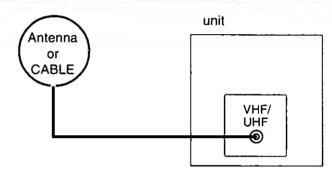


DSS/Cable box Connections

Without a Cable Box

You can:

- record or view unscrambled channels.
 You cannot:
- · record or view scrambled channels.
- view a channel other than the one selected for any type of recording.



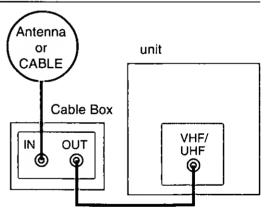
■ With a Cable Box

You can:

- record or view any channel including scrambled channels.
 NOTE: Channel selection must be made at the cable box.
 You cannot:
- view a channel other than the one selected for any type of recording.
- do a Timer recording of a channel unless you select it at the cable box.

Note to CABLE System Installer

This reminder is provided to call the CABLE (Cable TV) System Installers attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.



■ With a DSS Receiver

You can;

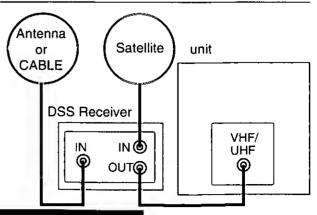
record or view any channel including scrambled channels.

NOTE: Channel selection must be made at the DSS Receiver.

You cannot;

- view a channel other than the one selected for any type of recording.
- do a Timer recording of a channel unless you select it at the DSS box.

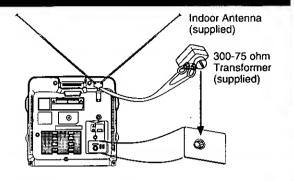
NOTE: The DSS receiver must be turned off to view programs from a cable box or antenna. See the DSS manual for details.



Indoor Antenna Connections

Insert the Indoor antenna (supplied) into the receptacle on the back of the unit. Then, connect the two wires to the 300 ohm-75 ohm transformer (supplied.) Next, connect the transformer to the back of the unit as shown.

Now, extend the antenna and adjust its length, direction and angle for the clearest picture.



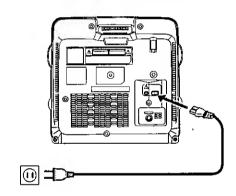
Connecting to a Power Source

Your unit goes where you go with two different ways to supply power. You may connect the supplied AC (alternate current) cord for use with any AC outlet. Or when travelling, connect the supplied DC (direct current) Car Battery cord which can be inserted in your vehicle's cigarette lighter.

For your safety and to avoid damage to the unit, please follow instructions and connections carefully.

■ Connecting the (supplied) AC Cord

- Connect the supplied AC cord to the AC input jack on the back of the unit as shown.
- 2. Plug the AC cord into an AC wall outlet.

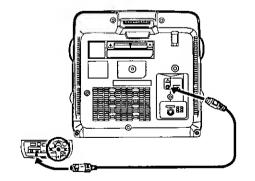


■ Connecting the (supplied) DC Cord

- 1. Connect the DC Car Battery cord to the DC input on the back of the unit as shown.
- 2. Start the engine of your vehicle.
 - DO NOT insert the cord into the cigarette lighter until the engine is running.
- 3. Remove the cigarette lighter from it's socket and insert the Car Battery plug in it's place.

IMPORTANT NOTES

- This cord can only be used in vehicles equipped with DC 12V or 24V (negative ground) batteries. Check your car's owner's manual.
- . Use the only the Car Battery cord packed with your unit.
- To avoid a loss voltage, do not attach an extension to the Car Battery cord.
- When unit is not in use, disconnect the Car Battery cord from the cigarette lighter socket to save car battery.



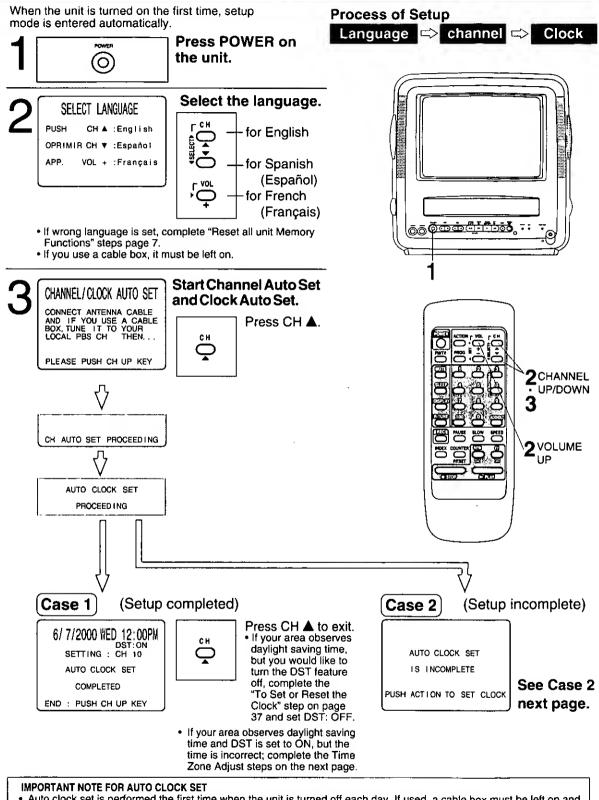
■ Replacing the DC Car Cord Fuse

If the safety fuse in the car cord plug blows out, replace it as follows.

- 1. Unscrew the cap (counterclockwise.)
- 2. Replace using a 125V 10A fuse.
 - Only use fuses with the exact voltage and amps specified.
- 3. Replace the cap (clockwise.)



One Time Setup



- Auto clock set is performed the first time when the unit is turned off each day. If used, a cable box must be left on and tuned to the PBS channel at the time the unit power is turned off if you want auto clock set to be done.
- If using a DSS receiver, it must be turned off for auto clock set.
- If a Cable Box or DSS receiver is connected to the unit via Audio/Video Jacks, an RF coaxial cable must also be connected for auto clock set and channel auto set features.
- · If for any reason the time is changed manually, automatic time correction will not occur.

Case 1 Set TIME ZONE ADJUST.

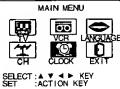
1 |

ACTION

Display MAIN MENU.

Press ACTION.

2

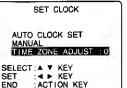


Display SET CLOCK screen.



- 1) Press ▲▼◀ ► to select "CLOCK"
- Press ACTION to display.

3



Select TIME ZONE ADJUST.



- Press ▲▼ to select.
- Press ◀▶ to subtract or add hour(s) as necessary.

4



End setup.

Press ACTION twice.

•TIME ZONE ADJUST
returns to "0" if clock is set
manually.

Case 2 Clock Setup is Incomplete Set the clock manually.

a

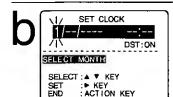
AUTO CLOCK SET

PUSH ACTION TO SET CLOCK

Display SET CLOCK screen.



Press ACTION to exit this mode.



Set the clock manually.



- Press ▲▼ to select the month.
- Press ► to set.
- Likewise set date, year, time, and DST (Daylight Saving Time.)

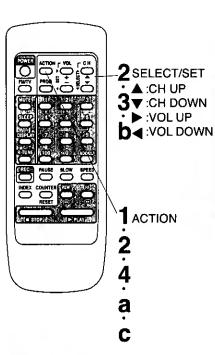
To Make Corrections, repeatedly press ◀ ► to move to error, then correct.

C



End setup.

Press ACTION twice (Clock starts.)



Notes

- This unit's calendar is accurately maintained up to Dec. 31, 2089, 11:59 PM.
- Channel auto set selects normal TV or Cable channels depending on your unit hookup.

ACTION key on the unit -



You can operate the menu screen using unit buttons.

To display the menu, press STOP/EJECT and REW together with no tape inserted.

To exit the menu, repeat above with or without tape inserted.

Using **▲▼**◀▶ keys



A: CH UP

T: CH DOWN

➤ : VOLUME UP✓ : VOLUME DOWNWhenever the menu or

On Unit

program screen is displayed, CHANNEL UP/DOWN function as ▲▼ and VOLUME UP/DOWN function as ◀▶ only.

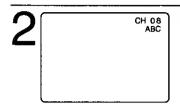
TV Operation

1

Press POWER on the remote or unit.

Check list before you begin.

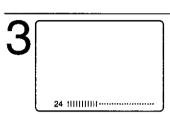
All connections are made. (See page 8.)
Your unit is plugged in.



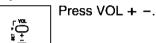
Select a channel.

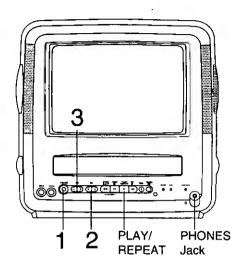


Using CH ▲▼ or NUMBERED keys.



Adjust volume.





■ Using the 100 key

When selecting CABLE channels 100 to 125 with the NUMBERED keys, first press the 100 key, and then enter the remaining two digits.

■ Rapid Tune

Press R-TUNE to display the last channel you were watching.

■ Audio Mute

Press MUTE to instantly mute the sound.

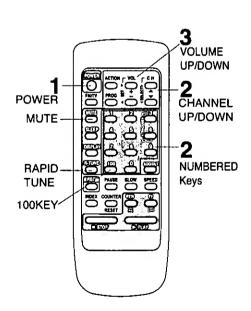
Press again, to restore the previous sound level.

■ Phones

Connect an earphone (not supplied) or headphones (not supplied) to the Phones Jack.

■ SELF-DEMO Mode

With Power ON, hold down PLAY/REPEAT on the unit for 5 seconds to display demo screen. Repeat this to exit.



Picture Adjustment

1

ACTION

Display MAIN MENU.
Press ACTION.

MAIN MENU

WELLANGUAGE

CH CLOCK EXIT

SELECT: A T T KEY

SET : ACTION KEY

Display SET UP TV screen.

1) Press ▲▼◀▶
to select "TV."

ACTION

Press ACTION to display.

SET UP TV

LOCK
CAPTION
INPUT SELECT : TUNER
VIDEO ADJUST
FM ANTENNA : INT
SELECT: A V KEY
SET : > KEY
SET UP TV

Display VIDEO ADJUST screen.



- 1) Press ▲▼ to select.
- 2) Press ► to display.



Adjust desired item.

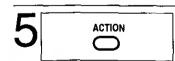


- Press ▲▼ to select an item. (See below right.)
- Press ◀► to adjust.



To Reset Picture Controls.

Press ▲▼ and ► to select and set "NORMAL." All controls return to their factory settings.

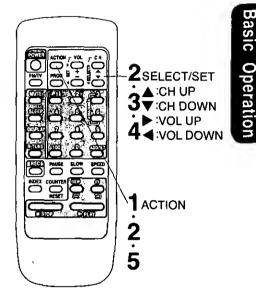


End setup.

Press ACTION three times to exit.

Note

Due to the earth's magnetic fields, or magnetic charge build-up from nearby electrical appliances, color distortion may occur if the unit direction is changed while it is on. To avoid this, position the unit before turning it on. If this phenomenon does occur, press the POWER-off and then on again.



Picture Adjustment

COLOR Control Adjust color intensity.

TINT Control
Adjust for natural flesh tones.

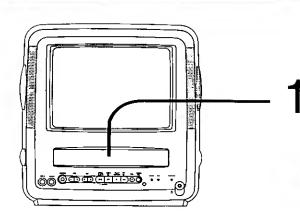
BRIGHTNESS Control Adjust picture brightness.

PICTURE Control

Adjust picture intensity by adjusting both contrast and color level in the proper balance.

SHARPNESS Control Adjust picture sharpness.

Playback a Tape



TRACKING

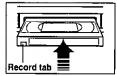
FF

STOP



☐ All connections are made. (See page 8.)
☐ Your unit is plugged in.

Insert a cassette.



Note

To prevent tape jam

Inspect your cassette tapes and remove any loose or peeling labels.



2



Press PLAY.

- Playback begins if cassette has no record tab.
- To Find a Particular Scene

Forward Search → Press FF

(To release, press PLAY or FF)

Reverse Search → Press REW

(To release, press PLAY or REW)

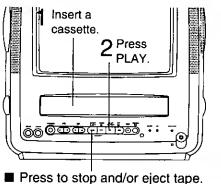
- To view a Still (Freeze) picture → Press PAUSE (To release, press PAUSE)
- To view in Slow Motion →
 Press SLOW (To release, press SLOW)
- To view Frame by Frame Advance →
 Press SLOW in the Still mode (To release, press PAUSE)

Note

After the unit is in Still or Slow mode for 3 minutes, it will switch to Stop mode automatically to protect the tape and the video head.

- To stop → Press STOP
- To rewind tape → Press REW in stop mode
- To fast forward tape → Press FF in stop mode
- To eject tape → Press STOP/EJECT on the unit

You can operate on the unit



Features for a Quality Picture

Digital Auto Tracking

Continuously analyzes the signal and adjusts for optimum picture quality.

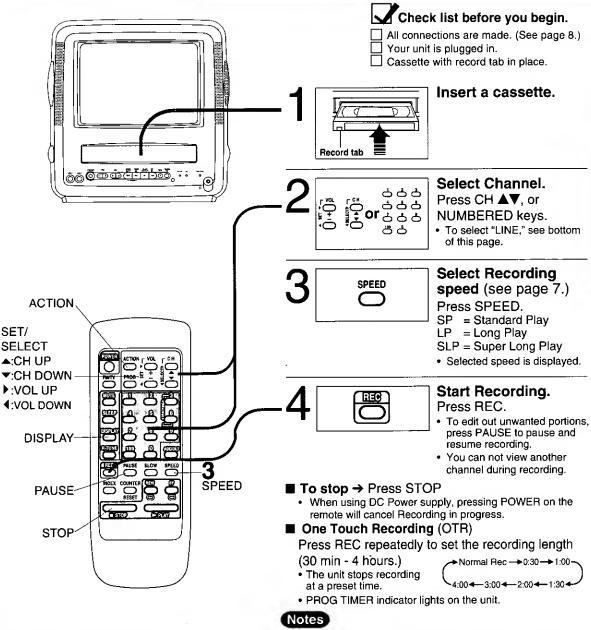
Manual Tracking Control (to reduce picture noise)
Use during Playback and Slow Motion mode to reduce picture noise.
Press the 3 or 6 NUMBERED key on the remote control or CH▲▼
on the unit until the picture clears up. To return to Auto Tracking,
press POWER off, then on again a few seconds later.

SLOW-

PAUSE

REW-

Record On a Tape



Selecting Input Mode

Method 1:

Press CH▲▼. The display will change as follows.

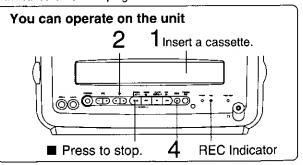
1 ← 2 ← 3 ← (CABLE) (TV)

LINE ← 125 or 69 ←

Method 2:

- a Press ACTION for MAIN MENU.
- b Press ▲▼◀► to select "TV", then press ACTION for SET UP TV screen.
- c Press ▲▼ to select "INPUT SELECT," and then press ► to select "TUNER" or "LINE."
- d Press ACTION twice to exit this mode.

- After the unit has been in Rec Pause mode for 5 minutes, it will stop automatically to protect the tape and video head.
- The remaining recording time of an OTR can be displayed by pressing DISPLAY.
- When using DC Power supply, pressing POWER on the unit will cancel an OTR in progress.



imer Recording

You can set up to 8 programs to be recorded while you are away.

PROG

Display PROGRAM screen.

Press PROG.

 If a program is already in memory. press ▲▼, and ▶ to select an unused program number.

Check list before you begin. All connections are made (See page 8.) Your unit is plugged in. The clock is set to correct time. The tape is long enough. The record tab is in place.

ZSELECT/SET

3 ▼:CH DOWN

➤:VOL UP ■:VOL DOWN

PROG

▲:CH UP



Example

Todav's

Date

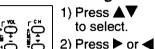
PROG/ACTION KEY

+8−9······31−- 1 −- 2······ 6-

SELECT ▲ / ▼ Selection Order

WEEKLY WEEKLY ___ WEEKLY (SUN)

Set the recording DATE.



- to set.
- 1~31 = One time • DAILY = MON~FRI
- WEEKLY SUN~SAT = Same time once a

week

Repeat step 2 to set:

- · start time, stop time
- Channel (or LINE for outside source)
- Category [N/A (not applicable), SPOŘTŠ, MOVIE, COMEDY, MUSIC, DRAMA]
- Speed (SP, LP, SLP)



Characters will change

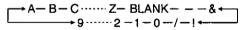
in the following order.

Make the notes.

. If not wanted, go to step 4.



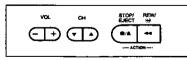
- Press A begin. Press ▲▼ to
- select. Press ► or ◀ to set.
- 4) Press PROG (or ACTION) to end.



Continued on the next page.

Timer Recording Using. unit Buttons

You can set the Timer Recording using ACTION key on the Unit. (see page 11.)



- 1 Press STOP/EJECT and REW together without a tape to display MĂIN MENU.
- ② Press ▲▼ + to select "VCR"
 and STOP/EJECT and REW together to display SET UP VCR screen.
- PROGRAM" and + to display the TIMER PROGRAM screen.
- Repeat step 2~5.



- 2 minutes before Timer recording is performed, "PLEASE PREPARE FOR TIMER REC" appears and/or the PROG TIMER indicator flashes. Be sure a cassette with record tab is loaded and the unit is in Stop mode.
- If the start times of two programs overlap, the lower numbered program will have priority.
- . If the start time for a Timer Recording comes up during a normal recording or One Touch Recording (page 15), the Timer Recording will not be
- If there is a power interruption of more than one minute, the recording
- may not be performed or continue.

 If "INCOMPLETE" appears after all items have been set, check all entries and make necessary corrections.
- . When using DC Power supply, a Timer Recording can not be performed if POWER on the unit is pressed OFF.

P DT START STOP CH SPD 1 day 9:00p 12:00a 08 SP CANCEL: ADD/DLT KEY SELECT 1-8: A ▼ KEY ENTER :> KEY END :PROG/ACTION KEY

End the program.



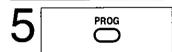
Press PROG (or ACTION.)

To Enter More Programs Press ▲▼ and ► to select and set a blank program number, and then repeat steps 2 and 3.

Cancel a Timer Recording: (Recording is in progress)

Hold down STOP for a few seconds to cancel the Timer Recording.

 Any future daily or weekly recordings will be performed as programmed.



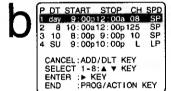
Exit this mode.

Press PROG (or ACTION.)

- · If you're using a cable box, make sure that it is turned to the desired channel and the power is left on for timer recording.
- PROG TIMER indicator lights on the unit.

Review, Replace or Clear Program Contents: (Recording is not in progress)

Repeat steps 1 on page 16.

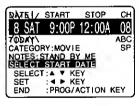


Select the desired program.



Press ▲▼ to select.

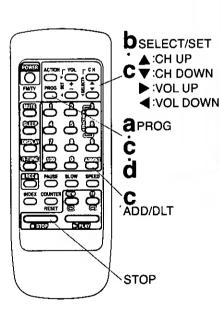
To Replace program...





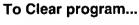
- 1) Press ▶ to display.
- 2) Press ▲▼ to select and **⋖** or ▶ to set new program contents.
- 3) Press PROG (or ACTION.)

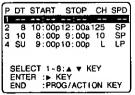
Press ADD/DLT.



_{ම්ම}ම්මණම්ච්ර්මේ

PROG TIMER indicator









Exit this mode. Press PROG (or ACTION.)



<u>V Timer Features</u>

SLEEP TIMER

This unit can be set for auto power off.



Set SLEEP TIMER.

Press SLEEP repeatedly.

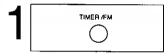
· Pressing DISPLAY with sleep timer set displays remaining time.

SLEEP TIMER 30 SLEEP TIMER 60 SLEEP TIMER 90 SLEEP TIMER 00

To cancel, press SLEEP repeatedly until "SLEEP TIMER 00" appears.

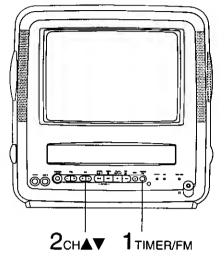
INSTANT ALARM

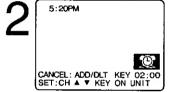
The feature allows you to set a timer alarm for up to 60 minutes. Useful for when you are cooking and need to leave the kitchen.



Display INSTANT ALARM screen.

Press TIMER/FM on the unit to display.





1:00 (one minute) -----2:00

3:00

9 00

20:00

25:00

30:00

40:00

50:00

60:00 (Max) - - -

10:00 ::::: 15:00

one-minute

increase

until 10:00

five-minute

ten-minute

increase

until 60:00

increase until 30:00 Set Alarm.

 \odot

Press CH ▲▼ on the unit to select time (see below.)

· Countdown starts 3 seconds after alarm is set.

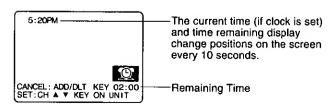
To cancel, press ADD/DLT.

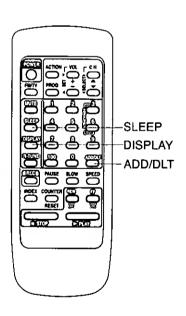
To increase timer in progress, Press CH ▲▼ to restart countdown rounded up to next 1. 5, or 10 minute interval.

<Example>

 If current time remaining is 12:15, countdown will restart from 15:00.

. If current time remaining is 9:15, countdown will restart from 10:00.





Alarm will sound at 0:00.

Press any button to stop.

 The volume of the alarm gradually increases for one minute and then continues to beep until any button is pressed.

Note

When watching TV while INSTANT ALARM is progress, only use CH ▲▼ on remote to change channels.

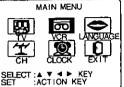
Tape Operation

Repeat Play

Set to see a recording over and over.

ACTION

Display MAIN MENU. Press ACTION.



Display SET UP VCR screen.



- 1) Press ▲▼◀▶ to select "VCR."
- 2) Press ACTION to display.



Select REPEAT PLAY.



- 1) Press ▲▼ to select "REPEAT PLAY."
- Press ► to set "ON" or "OFF."

ACTION

End setup.

Press ACTION twice.

Notes

- Playback repeats when tape end is reached or unrecorded portion over 30 seconds is detected.
- During playback, you may also press PLAY/REPEAT repeatedly on the unit to select REPEAT "ON" or "OFF."

Auto Operation Functions

Auto Shut Off

No broadcast signal in TV or Playback mode for 5 minutes

→ Power turns off automatically

 This feature is deactivated if any button is pressed during the above mode.

Auto Playback

Playback begins automatically if a tape has no record tab.

 This feature cannot be activated when the POWER button on the unit is turned OFF (POWER indicator is not lit.)

Auto Rewind

A tape reaches its end → Rewind begins → Stops automatically

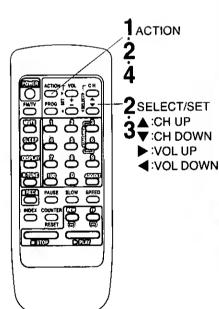
Playback Auto Eject (Repeat Play is "OFF")

A tape has no record tab reaches its end → Rewind begins

→ Ejects automatically

Memory Rewind off (ONLY AC POWER)
Press POWER in REW mode → Power turn off of TV (continued)

rewind) → Rewind is completed → All power turns off automatically



Tape Operation (continued)

Direct Access (For Normal and/or Timer recordings)

Go directly to the desired recording.

INDEX

Display INDEX screen. Press INDEX in Playback or Stop mode.

 If there are no Timer Recordings on the Program Index List or when using DC Power supply, go to step 3.

INDEX

INDEX SEARCH
PROGRAM INDEX SEARCH

SELECT: A V KEY
SET : P KEY
END : INDEX KEY

Display INDEX screen.



- Press ▲▼ to select "INDEX SEARCH."
- Press ► to display.
- This screen appears only if there are Timer Recordings.

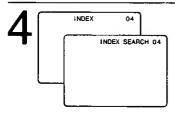
3

Select the recording number.



Press NUMBERED keys.

 To calculate number, see below.



Start search.

画

or

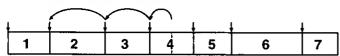
Press FF or REW.

 When search is finished, playback begins.

To calculate the Index Number

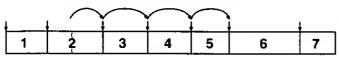
Example 1:

If you are watching recording 4 and you want to watch recording 2, enter 3 in step "3" and press REW.



Example 2:

If you are watching recording 2 and you want to watch recording 6, enter 4 in step "3" and press FF.



NOTE: I indicates start points of each recording.

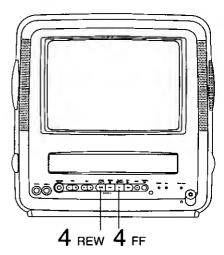
VHS Index Search System is ...

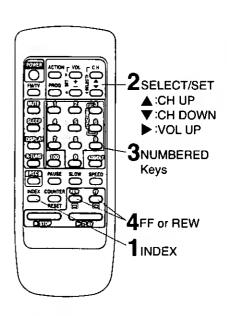
Each time recording is made, an invisible index mark is placed on the tape. When timer recordings are made,

program index and information are also included.

(Only AC POWER)

These index marks can be used to access or scan recordings.





Notes

- Make each entry within 10 seconds, or the Index Search mode will be canceled.
- If these VHS Index Search Systems are started very close to an index mark, that index mark may not be counted in the search.

Program Index Search (For Timer recordings only)

(Only AC POWER)

Choose a timer recorded program from a Program Index List.

INDEX

Display INDEX screen. Press INDEX in Playback or Stop mode.

INDEX :► KEY INDEX KEY END

Display PROGRAM INDEX screen.



- 1) Press ▲▼ to select "PROGRAM INDEX SEARCH."
- 2) Press ▶ to display.

PROGRAM INDEX 12/28 10:00A SPORTS ABCD 4 12:30P MOVIE NBC CBC NBC 1/ 4 8:00P COMEDY 1/ 7 3:00P MUSIC SELECT: ▲ ▼ KEY SEARCH: ► KEY END : INDEX KEY

Select the desired recorded program.



- 1) Press **▲**▼ to select.
- 2) Press ▶ to start the forward or rewind search.
- · When search is finished, playback begins.

Note

When the tape is ejected or normal recording is started, all program index data are deleted.

Index Scan (for Normal and/or Timer recordings)

In Play mode, the first 10 seconds of each recording can be scanned (forward or reverse.)

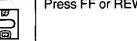
Repeat steps 1 and 2 on previous page to display INDEX screen.



Start the scan.

Press FF or REW.

Or



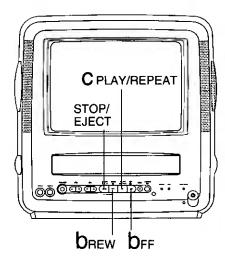


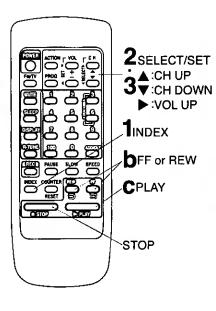
Cancel scan, start playback.



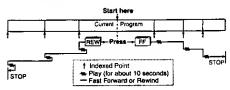
Press PLAY.

To stop, press STOP.









Closed Caption System

Closed Caption Mode Feature

ACTION

Display MAIN MENU.

Press ACTION.

Closed Caption is ...

This multi-use system not only allows the hearing impaired to enjoy selected programs, but also makes useful information from TV stations available to everyone.

MAIN MENU 恧

:A ▼ ◀ ► KEY

Display SET UP TV screen.



- Press ▲▼◀▶ to select "TV."
- 2) Press ACTION to display.

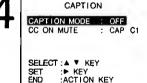


INPUT SELECT VIDEO ADJUST - TUNER FM ANTENNA : INT SELECT: ▲ ▼ KEY : KEY : ACTION KEY

Display CAPTION screen.



- 1) Press ▲▼ to select.
- 2) Press ➤ to display.



Select CAPTION MODE.



- 1) Press ▲▼ to select.
- 2) Press ▶ repeatedly to select caption mode.

→ CAP C1 → TEXT C2 TEXT C1 - CAP C2 ◀

ACTION

Return to the normal screen.

Press ACTION three times.

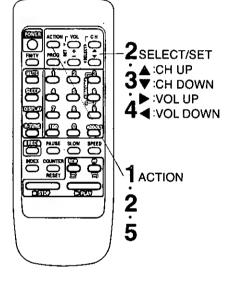
Recording and Playing Back a Closed Caption/ **Text Program**

Record:

Record normally. Closed Caption/Text signal, if present, is recorded automatically.

Playback:

Start playback. Do above steps to select desired caption mode.



Closed Caption Modes From which to Choose

Caption Mode: CAP C1 or C2 A narration of selected TV programs is displayed.

Check TV program listings for C. C. (Closed Caption) broadcasts.

Caption Mode: TEXT C1 or C2

The lower half of the screen will be blocked out. When the TV station broadcasts information, such as program listings, it will appear in this space.

Caption Mode: OFF

Closed Caption /Text narration will not be displayed.

NOTE:

The closed caption or text signal may be broadcast over C1, C2, or both. Also, text contents can vary so you may wish to try different settings.

Caption On Mute Feature

Closed Caption narration, if available, is displayed when MUTE button is pressed for silence.

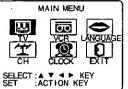
1

ACTION

Display MAIN MENU.

Press ACTION.

2



Display SET UP TV screen.



- Press ▲▼◀▶ to select "TV."
- Press ACTION to display.

3



Display CAPTION screen.



- Press ▲▼ to select.
- 2) Press ► to display.

4



Set CAPTION MODE OFF.



- 1) Press ▲▼ to select.
- 2) Press ► repeatedly to select "OFF."

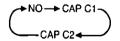
5



Select CC ON MUTE.



- Press ▲▼ to select.
- 2) Press ► repeatedly to select desired caption mode.



- Each press of will change the display as shown at left.
- The caption may be broadcast over CAP C1 or C2.

6



Return to the normal screen.

Press ACTION three times.

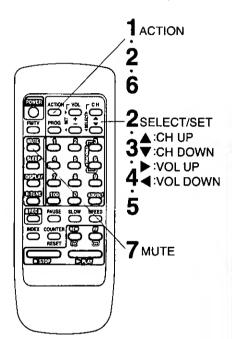
7



Mute sound, display closed captioning.

Press MUTE to mute the sound.

To cancel, press MUTE again.



FM Radio

FM Radio Setup

1

FM/TV

Display FM radio mode.

Press FM/TV on the remote or TIMER/FM twice on the unit.

2 12:00PM

FM 1 87. 5MHz

Select the FM number.



Press a NUMBERED key (1~9.)

3

12:00PM

12:00PM

FM 1 87.7MHz MEMORY:PUSH ADD/DLT KEY Set the radio station.



- 1) Press CH ▲▼
 to select the
 desired radio
 station.
 (Each press changes
 frequency 200 kHz.)
- 2) Press ADD/DLT to set.

FM 1 87.7MHz MEMORIZEO

Quick Station Scan

Hold down CH \triangle or ∇ for a few seconds, then release to scan for FM stations in your area.

 To cancel, press CH ▲ or ▼ while in search mode.

To Make Corrections,

select station with a NUMBERED key, then do step ${\bf 3}$ again.

To exit FM mode, press FM/TV on the remote or TIMER/FM twice on the unit.

FM ANTENNA Setup

Make sure FM tuning is done correctly (See FM Radio Setup.)

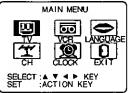
a



Display MAIN MENU.

Press ACTION.

b



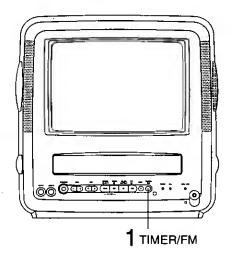
Display SET UP TV screen.

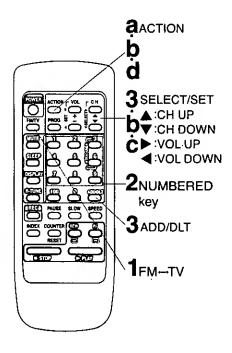


- 1) Press ▲▼◀▶ to select "TV."
- Press ACTION to display.

FM Radio is ...

This unit has an FM radio with built-in antenna, 9 station preset, and a band range of 87.5 ~ 108.1 MHz.





Continued on the next page...

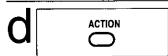


Select FM ANTENNA.



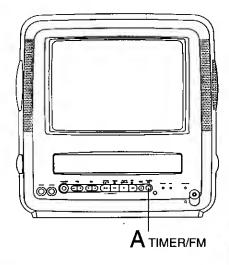
- Press ▲▼ to select.
- 2) Press ► to select "INT (INTERNAL)" or "EXT (EXTERNAL)" whichever sounds the best.

For cable TV users → "INT"For antenna users → "EXT"

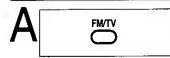


End setup.

Press ACTION twice to exit.

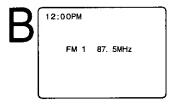


Using FM Radio



Display FM radio mode.

Press FM/TV on the remote or TIMER/FM twice on the unit.



Select the FM number.



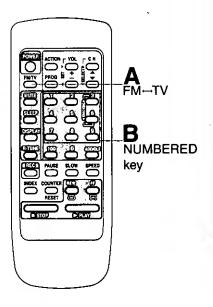
Press a NUMBERED key (1~9) to select a preset station (see steps 2 and 3 on the previous page.)

To cancel, press FM/TV on the remote or TIMER/FM twice on the unit.

Notes

Once stations are set, the selected station and current time are displayed when FM Radio mode is entered.

To remove time, press DISPLAY. If DISPLAY is pressed, the unit status screen appears.



Notes

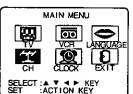
- FM radio cannot be recorded on a Video cassette.
- You may get better reception by repositioning the unit.
- You cannot select FM Radio mode during playback or record, or while a blue back (PROG, ACTION, MENU) screen is displayed.

Special VCR Features

Preset Caption

ACTION

Display MAIN MENU. Press ACTION.



Display SET UP CH screen.



- 1) Press ▲▼◀▶ to select "CH."
- 2) Press **ACTION to** display.

Channel Caption is ... Station names, e.g. ABC, TNT, etc. so that they will appear when a channel is selected. Choose 24 preset names (Preset Caption), or make up to 10 names of your own (Manual Caption.)



Check list before you begin.

You need a list of stations and the channel numbers you receive them on.

SET UP CHANNEL ANTENNA : CABLE CHANNEL CAPTION WEAK SIGNAL DISPLAY:OFF SELECT: ★ ▼ KEY

Select CHANNEL CAPTION.



- 1) Press ▲▼ to select.
- 2) Press ▶ to display.



:► KEY :ACTION KEY

SELECT: ▲ ▼ KEY E KEY ACTION KEY



 Press ▲▼ to select.

Select PRESET CAPTION.

- 2) Press ▶ to display.
- To create your own captions, go to "Manual Caption" on page 27.



Go with preset captions.



- 1) Press ▲▼ to select a station.
- 2) Press ▶ to move cursor to the right.
- 3) Press ▲▼ to select channel number.
- 4) Press ◀ to set.
- Repeat step 5 until the Caption List is complete.

To Make Corrections

PRESET CAPTION

42

SELECT: ★ ¥ KEY SET : ▼ KEY

TNT

UPN

DSC

WB

CLEAR

CBC

TSN 35

:ADD/DLT KEY

:ACTION KEY

GLOB TEE

62

21 52

Press ▲▼, then ▶ to select channel number. Press ▲▼ to change, or ADD/DLT to delete.

ACTION

End setup.

Press ACTION four times.

1 ACTION ? 2 3select/set ▲:CH UP 4₹:CH DOWN ∴ ►:VOL UP 5**∢**:VOL DOWN ADD/DLT

1 Do "Preset Caption" steps 1~3 (page 26.)

CHANNEL CAPTION

PRESET CAPTION

MANUAL CAPTION

SELECT: A V KEY

SET : KEY
END : ACTION KEY

Select MANUAL CAPTION.



- Press ▲▼ to select.
- Press ► to display.

MANUAL CAPTION
CH NUMBER CAPTION
D2 ---SELECT: A V KEY
SET :- KEY
END :ACTION KEY

Select Channel number.



- Press ▲▼ to select CH NUMBER.
- Press ► to move cursor to the right.
- Channels already set and channels deleted from Channel Memory are not displayed.
- You can set a total of ten channel captions with up to four characters each.

MANUAL CAPTION

CH NUMBER CAPTION

O2

CLEAR :ADD/DLT KEY

SELECT: A ▼ KEY

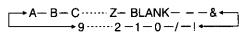
SET : ◄ ▶ KEY

:ACTION KEY

Enter your caption.



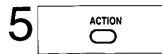
- 1) Press ▲▼ to select.
- 2) Press ► to enter.
- Characters change in the following order.



To Make Corrections

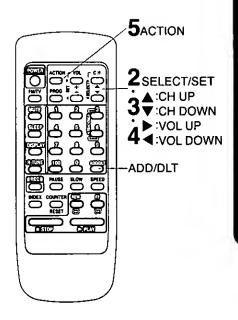
Press ▲▼, then ▶ to select channel number.

Press ▲▼ to change, or ADD/DLT to delete.



End setup.

Press ACTION four times.



Special VCR Features (continued)

Time Stamp Feature

The unit writes program data (see example below) for about the first 10 seconds of every recording.

The information is then displayed the first 10 seconds of playback. To change the data, see "Changing Time Stamp Data" section on next page.

- Check list before you begin.
- ☐ The clock is set to correct time.☐ The record tab is in place.

1 ACTION

Display MAIN MENU.

Press ACTION.

MAIN MENU

WCR LANGUAGE

CH CLOOK EXIT

SELECT: ACTION KEY

Display SET UP VCR screen.



- Press ▲▼◀► to select "VCR."
- Press ACTION to display.

SET UP VCR

REPEAT PLAY : OFF
TIMER PROGRAMMING

TIME STAMP : ON

SELECT: A V KEY
SET : KEY
END : ACTION KEY

Select TIME STAMP.



- Press ▲▼ to select.
- Press ► to set "ON" or "OFF."
- When "OFF" is selected, the program data is written on the tape, but will not be displayed.

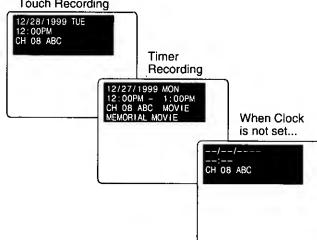
4 action

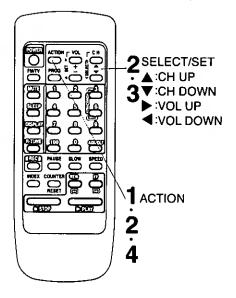
Return to normal screen.

Press ACTION twice.

<Time Stamp Example >

Normal/ One Touch Recording





Changing Time Stamp Data

You may change the time stamp data (Date, Time, Channel, Category, and Notes) as desired.

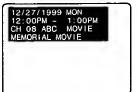
1



Display Time Stamp Data.

- Insert cassette with record tab.
- 2) Press PLAY.

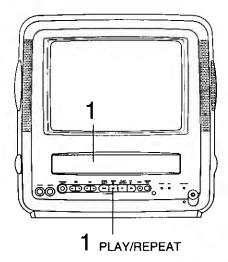
2



Display TIME STAMP EDIT.

PROG

Press PROG while the data is displayed in playback mode.



3

TIME STAMP EDIT
DATE : 12/27/1999 MON
TIME : 12:00PM - 1:00PM
CH : 08 ABC

CH: 08 ABC
CATEGORY: MOVIE
NOTES: MEMORIAL MOVIE----

SELECT: ★ ▼ KEY SET : ◀ ▶ KEY END : PROG KEY





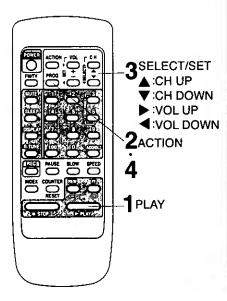
-] 1) Press **▲▼**
 - 2) Press ► or ◀ to enter and continue.

to select.

 Characters in NOTES will change in the following order.

3) Repeat 1) and 2) as needed.

To Make Corrections
Press ◀ ► to move to the incorrect entry, then press ▲▼ to make the correction.





Write the new data.

PROG

Press PROG.

- After the data is written, the unit automatically goes into Stop mode.
- You cannot use POWER or REC button while "NOW WRITING TIME STAMP" is displayed.

Special VCR Features (continued)

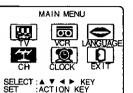
Weak Signal Display ON/OFF

When "ON" is selected, picture is displayed even when broadcast signal is weak or nonexistent.

ACTION

Display MAIN MENU.

Press ACTION.



Display SET UP CH screen.



- 1) Press ▲▼◀▶ to select "CH."
- 2) Press ACTION to display.

SET UP CHANNEL ANTENNA : CABLE AUTO SET CHANNEL CAPTION WEAK SIGNAL DISPLAY: OFF

SELECT: ▲ ▼ KEY : KEY : ACTION KEY

Select WEAK SIGNAL DISPLAY.



- 1) Press ▲▼ to select.
- Press ► to set "ON" or "OFF."

Notes

- "ON" = Picture is displayed regardless of signal condition, and may not always be clearly visible. "OFF" = Screen turns solid blue when signal is absent or weak.
- · If unit is connected to equipment which has blue back feature.
- selecting "ON" will have no effect on the other equipment.

ACTION

Return to the normal screen.

Press ACTION twice.

VCR Lock

All operations are prohibited except Timer recording and tape eject. Useful for families with small children.

VCR LOCK ACTIVATED VCR LOCK OFF



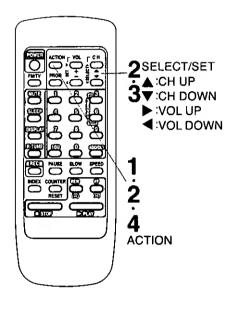
To turn "ON."

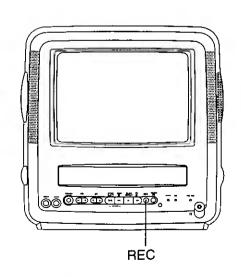
In Stop mode, hold down REC on the unit without a cassette inserted for 7 seconds.

To turn "OFF."

Repeat above with or without cassette.

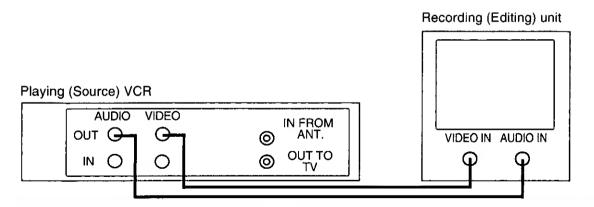
· VCR Lock is canceled automatically after about 24 hours if clock is set.



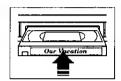


Copy Your Tapes (Dubbing)

Connections you'll need to make.

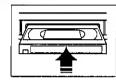


Playback (Source) VCR



Insert prerecorded tape.

Recording (Editing) unit



Insert blank tape with record tab.

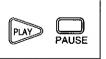
• Dubbing tapes protected with Copy Guard will have poor quality results.

2 _____

Select "LINE" mode.

See "Selecting Input Mode" section on page 15.

3



Put in Standby mode.

Press PLAY then PAUSE at starting point.



Put in Standby mode.

Press REC, then PAUSE immediately.

4



Start dubbing.

Press PLAY.



Start dubbing.

Press PAUSE.

5



Stop dubbing. Press STOP/ EJECT.



Stop dubbing.

Press STOP.

Notes

V-Chip Control Feature

V-Chip Feature is...

The unit has built-in V-Chip Control which allows you to block unwanted TV usage based on MOTION PICTURE and TV PARENTAL Guide ratings.

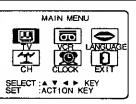
Process of V-Chip Feature |Setup|⊏> Blocking

Enter Secret Code

A 4-digit code must be entered to view a blocked program or change rating settings.

Display MAIN MENU.

Press ACTION.



ACTION

Display SET UP TV screen.



- 1) Press ▲▼◀▶ to select "TV."
- 2) Press ACTION to display.



: TUNER

: INT

Select Lock.



- 1) Press ▲▼ to select.
- 2) Press ▶ to display.



:ACTION KEY

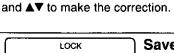
Enter your secret code.



- 1) Press ▲▼ to select a number.
- 2) Press ► (or ◀) to set.
- · Repeat step 4 until all 4-digits are entered.
- · Take care that you are not observed entering the secret code.

To Make Corrections Press ◀▶ to move the cursor

END



Save 4-DIGIT CODE.

ACTION

Press ACTION.

CHANGE CODE: ADD/DLT KEY CONTINUE: ACTION KEY

ACTION

LOCK

RECOGNIZED

Display LOCK menu for rating screen.

Press ACTION and go to page 33 (MOTION PICT. Ratings), or page 34 (TV PARENTAL Ratings) to exit, press ACTION

four times.



new code.

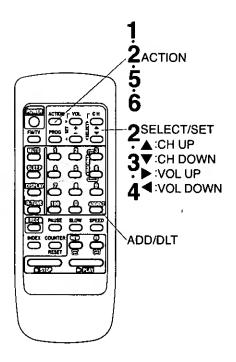
- DO NOT forget your secret code.
- · Once rating are set, restricted tapes or programs cannot be accessed unless the secret code is entered.

Changing your secret code

You will need your current code.

Do steps 1~4. In step 5, press ADD/DLT to clear current code.

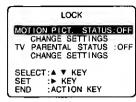
Repeat steps 4 and 5 to enter



Setup MOTION PICT. (PICTURE) Ratings

If LOCK menu is not displayed, do "Enter Secret Code" steps on page 32.

1



Select MOTION PICT. STATUS.



- 1) Press ▲▼ to select.
- 2) Press ►
 to set "ON"
 or "OFF."

If you select MOTION PICT. STATUS:

- "ON" → V-Chip Control is activated.
- "OFF" → V-Chip Control is deactivated.

LOCK

MOTION PICT. STATUS: OFF
CHANGE SETTINGS
TV PARENTAL STATUS: OFF
CHANGE SETTINGS

SELECT: A V KEY
SET : P KEY
END : ACTION KEY

Select CHANGE SETTINGS.



- Press ▲▼ to select.
- 2) Press ► to display.

WIEW NR PROGRAMS?: YES

G UNLOCKED

PG

PG

PG-13

R

NC-17

X

CONTAINS NO RATING

SELECT: A V SET: END : ACTION KEY

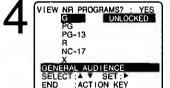
Select VIEW NR PROGRAMS?



- 1) Press ▲▼ to select.
- 2) Press ► to set "YES" or "NO."

NR (Not Rated) PROGRAMS

Some movies, such as old movies or foreign movies usually have no ratings.



Select ratings to be blocked. (See right.)



- Press ▲▼ to select.
- Press ► to set.

5 action

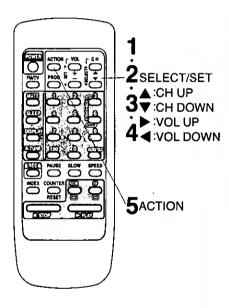
Redisplay LOCK menu to continue setup.

Press ACTION and go to page 34 (TV PARENTAL Ratings) Or,

to exit, press ACTION four times.

Process of V-Chip Control Feature

Enter Code Setup Blocking



MOTION PICTURE RATINGS

GENERAL AUDIENCE: G All ages admitted. PARENTAL GUIDANCE: PG Some material may not be suitable for children. PG-13 PARENTS CAUTIONED: Some material may be inappropriate for children under 13. RESTRICTED: R Children under 17 must be accompanied by a parent or adult.

NC-17 | (

OVER AGE 17 ONLY: No one 17 and under admitted.

X ADULTS ONLY:

V-Chip Control Feature (continued)

Setup TV PARENTAL Ratings

If LOCK menu is not displayed, do "Enter Secret Code" steps on page 32.

LOCK MOTION PICT. STATUS:OFF CHANGE SETTINGS TV PARENTAL STATUS :OFF CHANGE SETTINGS SELECT: ▲ ▼ KEY SET : ► KEY END : ACTION KEY

Select TV PARENTAL STATUS.



- Press ▲▼ to select.
- Press ► to set "ON" or "OFF."

If you select TV PARENTAL STATUS:

- "ON" → V-Chip Control is activated.
- "OFF" → V-Chip Control is deactivated.



Select CHANGE SETTINGS.



- Press ▲▼ to select.
- 2) Press ▶ to display.

VIEW NR PROGRAMS? : YES TV-Y UNLOCKED B CONTAINS NO HATING ACTION KEY

Select VIEW NR PROGRAMS?



- 1) Press ▲▼ to select.
- Press ► to set "YES" or "NO."

NR (Not Rated) PROGRAMS

Some TV shows, such as news, sports, weather, bulletins, emergency information usually have no ratings.

PROGRAMS? : YES UNLOCKED B FOR ALL CHILDREN SELECT: A SET:

ACTION KEY

Select ratings to be blocked. (See next page.)



- 1) Repeatedly Press ▲▼ to select.
- Press ► to set.
- · Ratings which are highlighted in Green will be blocked. when not highlighted (white letters), these will not be blocked.

Note

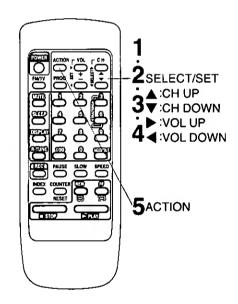
You may select from standard TV ratings (chart 1), or customize to a specific content rating (chart 2.)

ACTION

Exit this mode.

Press ACTION four times.

Process of V-Chip Control Feature Enter Code > Setup > Blocking



TV PARENTAL GUIDE RATINGS: Chart 1

TV-Y FOR ALL CHILDREN: Content specifically geared to young viewers ages 2-6. TV-Y7 FOR AGE 7 AND OLDER: May contain mild physical or comedic violence which may frighten children under 7. TV-G GENERAL AUDIENCE: Contains little or no violence, strong language, or sexual dialogue or situations. TV-PG PARENTAL GUIDANCE: May contain infrequent coarse language, limited violence, some suggestive sexual dialogue and situations. PARENTS CAUTIONED: TV-14 May contain sophisticated themes. sexual situations, strong language, and more intense violence.

TV PARENTAL GUIDE RATINGS: Chart 2

MATURE AUDIENCE:

May contain mature themes,

profane language, graphic violence, and sexual situations.

TV-MA

FV	Fantasy Violence
V	Violence
S	Sexual Situations
L	Adult Language
D	Sexually Suggestive Dialogue

Process of V-Chip Control Feature Enter Code Setup Blocking

Blocking Message

<When V-Chip Control is activated>

PROGRAM RATING EXCEEDED
RATING:PG-13

 If V-Chip Control is activated, and a program or movie exceeds the ratings you have set, a message will appear on a black background and sound is muted.

STOP 11:00AM ABC -0:12:34 SP

RATING:PG-13

 If DISPLAY is pressed, even when V-Chip control is deactivated, rating is displayed on-screen.

To Continue Viewing a Blocked Program

After entering your 4-digit secret code, go to step 1 on both pages 33 and 34 and select "OFF" to deactivate V-Chip Control.

 The MOTION PICT, and TV PARENTAL ratings you set will be retained.

Reset Language, Channels, Clock

To Change the OSD Language

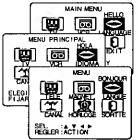
1

ACTION

Display MAIN MENU.

Press ACTION.

2



Select the language selection icon.



- Press ▲▼◀▶
 to select.
- 2) Press ACTION repeatedly to set. English:LANGUAGE Spanish:IDIOMA French:LANGUE

SELECT/SET

▼:CH DOWN ▶:VOL UP

☐

☐ :VOL DOWN

D ▲:CH UP

1 ACTION

23abe

3





End setup.

- Press ▲▼◀► to select "EXIT."
- 2) Press ACTION to exit.

To Replace Channels in Memory

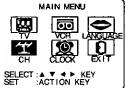
a



Display MAIN MENU.

Press ACTION.

b

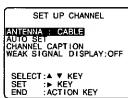


Display SET UP CH screen.



- Press ▲▼◀▶ to select "CH."
- Press ACTION to display.

C

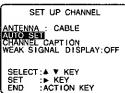


Select ANTENNA.



- 1) Press ▲▼ to select.
- 2) Press ▶ to select your antenna system ("TV" or "CABLE.")

d



Select AUTO SET.



- Press ▲▼ to select.
- Press ▶ to start.

e



End setup.

Press ACTION twice.

36

For assistance, call 1-800-211-PANA(7262)

To Set or Reset the Clock

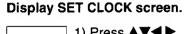
ACTION

Display MAIN MENU.

Press ACTION.

MAIN MENU <u></u>

:A ▼ ◀ ▶ KEY





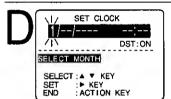
- 1) Press ▲▼◀▶ to select "CLOCK."
- 2) Press ACTION.

SET CLOCK AUTO CLOCK SET MANUAL TIME ZONE ADJUST :0 SELECT: ▲ ▼ KEY ► KEY SET





- 1) Press ▲▼ to select "MANUAL."
- 2) Press ▶ to set.
- For Auto Clock Set, select "AUTO CLOCK SET" then press > to set and CH ▲ to start.



Set the clock manually.



- 1) Press ▲▼ to select the month.
- 2) Press ▶ to set.
- · Likewise set date, year, time, and DST. (Daylight Saving Time.)

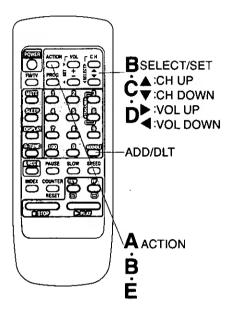
To Make Corrections.

repeatedly press ◀▶ to move to error, then correct.

ACTION

End setup.

Press ACTION twice to start the clock and exit this mode.



Add or Delete a Channel

To add channel: Select channel with NUMBERED keys and press ADD/DLT.

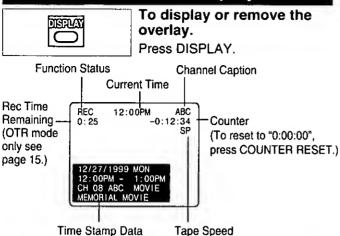
CHANNEL OB ADDED

To delete channel: Select channel with CH ▲▼ or NUMBERED keys and press ADD/DLT.

CHANNEL OS DELETED

On-Screen Display (OSD)

VCR Status & Clock Display



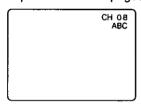
Blue Screen Display

Whenever a blank section of a tape comes up in Play mode, or when the selected channel has no broadcast signal with the "Weak Signal Display ON/OFF" (page 30) set to "OFF", the TV screen will turn solid blue.

Channel & Function Display

(See page 28, 29.)

When a function button is pressed (PLAY, FF, etc.) or you change channels, the unit mode or channel number will be displayed. (Some station names may also appear if Channel Caption is set. See pages 26, 27.)



Dew Detection System

To prevent damage to your tapes, this unit is equipped with a dew detection system. When moisture condensation is detected inside the unit, "DEW" will appear onscreen for a few seconds. If a tape is inserted, it will be ejected. Also, VCR functions will be non-operational until dew condition passes. Press DISPLAY to see if dew condition, try not to move the unit directly from a cold place to a warm place. TV functions are not affected.

Warning and Instruction Displays

These displays will alert you of a missed operation or provide further instructions.

OSD	Caution	Page
NO CH FOUND PLEASE CHECK ANTENNA CABLE CONNECTION THEN PUSH CH UP KEY AGAIN	If no active channels are found for CHANNEL MEMORY	8
PLEASE SET CLOCK BEFORE PROGRAMMING	If you attempt to set or review a Timer Recording, or set the On- Timer and the Clock is not set	
CHECK CASSETTE RECORD TAB	If you press REC, and a cassette is inserted with no record tab	6, 15
TO CANCEL TIMER REC HOLD DOWN STOP KEY FOR APPROX 3 SEC	If you press STOP during a Timer Recording	
NO CASSETTE PLEASE INSERT A CASSETTE	If you press PLAY, FF, REW, or REC without a cassette inserted	
DEW	If moisture condensation is detected inside the unit	
VIDEO HEADS MAY NEED CLEANING PLEASE INSERT HEAD CLEANING CASSETTE OR REFER TO MANUAL END: PLAY KEY	tape	
VCR LOCK ACTIVATED	If you press a function button other than STOP/EJECT or POWER while the unit is in VCR Lock mode	30

Operation Differences Using AC or DC Power

This unit is equipped to be operated on either AC or DC power. However, there are some differences in unit operation depending on which power supply is used.

Notes

- The unit will accept commands from the remote control only when POWER on the unit is turned ON (POWER indicator is lit.)
- When POWER on the unit is OFF (DC power source), it's the same as if the unit were unplugged. Therefore, all memory data, i.e. clock data, etc. is erased in approximately one minute.
- If there is a loss in battery voltage of more than 30 seconds, the unit automatically shuts off.

AC Power Supply is Used	DC Power Supply is Used
If POWER on the remote control is pressed OFF during rewind, the power will shut off but the rewind will continue (Memory Rewind.) If it is pressed during recording, the recording will continue.	If POWER on the remote control is pressed OFF during rewind, the rewind is terminated and the unit shuts off. If it is pressed while recording, the recording is terminated and the unit shuts off.
When STOP is pressed, the cylinder continues to rotate for 5 minutes.	When STOP is pressed, the cylinder stops.
If the AC cord is unplugged and then plugged back in, the unit will be in OFF condition.	If POWER on the unit is pressed OFF, the unit will be in Stop mode when turned back on. If the DC cord is unplugged, and then plugged back in; within one minute, Play and Rec mode will continue. All other functions will change to Stop mode. If unplugged for over one minute, the unit will be in STOP mode when plugged back in.
If POWER on the unit is pressed OFF, OTR (One Touch Recording) is continued.	If POWER on the unit is pressed OFF, OTR (One Touch Recording) will be canceled.
If POWER on the unit is pressed OFF, Timer Recording will be performed.	If POWER on the unit is pressed OFF, while a Timer Recording is in progress, the Timer Recording will be canceled.
If POWER on the unit is pressed OFF during rewind, the power will shut off but the rewind will continue (Memory Rewind.)	If POWER on the unit is pressed OFF during rewind, the rewind is terminated and the unit shuts off.

WARNING:

- There may be an excessive drain on the battery if the unit is used along with such power consuming things as fog lamps, air conditioner, power windows, etc.
- Never watch or operate the unit while driving a vehicle.
- Avoid leaving the unit in places of extreme heat, such as inside a hot vehicle, or in direct sunlight
 as this may damage the unit.

Before Requesting Service

Check the following points once again if you are having trouble with your unit.

Power	Correction
No power	 Completely insert Power Plug into an AC outlet or when using the DC Car battery cord, check to see it the fuse is blown. Set POWER button to ON.
Monitor	Correction
No picture or sound	 Make sure your antenna system (TV or CABLE), is correctly set. (P. 8) Completely insert Power Plug into an AC outlet. (Or use the DC Car Battery Cord.) Set POWER button to ON.
Poor picture with normal sound	 Adjust BRIGHTNESS, SHARPNESS, and PICTURE controls in the SET UP TV menu. (P. 13)
Poor sound with normal picture	Adjust VOLUME control. (P. 12)
Poor TV reception	Adjust SHARPNESS and PICTURE controls in the SET UP TV menu. (P. 13)
No color or poor color	Adjust TINT and COLOR controls in the SET UP TV menu. (P. 13)
Ghost (multiple) images	Install a directional antenna.
TV programs cannot be watched	Make sure the selected channel is in unit's memory. (P. 36)
Channel cannot be selected	Only the channel being recorded can be viewed on this unit.
VCR	Correction
TV program cannot be recorded	 Make sure your antenna system (TV or CABLE), is correctly set. (P. 8) Make sure cassette record tab is intact. (P. 6)
Timer recording cannot be performed	 Check that clock is set to current time and date. Make sure DSS/CABLE box (if used) is left on and tuned to channel to be recorded.
	 Set recording Start/Stop time correctly. (P. 16, 17) Timer recording may not be performed or continued if a power interruption of more than 1 minute occurs before or during a Timer recording even after power is restored.
No playback picture, or the playback picture is noisy or contains streaks	 Adjust TRACKING control in either direction. (P. 14) Try Head Cleaning. (P. 7)
VCR cannot be controlled	Make sure VCR LOCK is set to off. (P. 30)
	Make sure unit is not in a Timer Record operation.
Remote Control	Correction
Unit cannot be controlled	 Aim remote at remote sensor on unit (P. 47) so that signal is unobstructed. Inspect the remote batteries. (P. 6) Make sure VCR LOCK is set to off. (P. 30) Exposing unit remote sensor to direct fluorescent or outdoor light may cause signal interference.
Miscellaneous	Correction
Video cassette cannot be inserted	Insert the cassette window side up; record tab facing you.
Video cassette cannot be removed	 Completely insert Power Plug into an AC outlet. (Or use the DC Car Battery Cord.)
Tape cannot be ejected or inserted	Try ejecting or inserting the tape again after turning POWER off, then back on.
Video cassette ejects when a recording is started, or the power is turned off for timer recording	Make sure cassette record tab is intact. (P. 6)
In Stop mode, the VCR motor (CYLINDER) continues to rotate	 To enable Quick Play mechanism, the VCR cylinder will rotate for about 5 minutes. This reduces response time from Stop to Play mode and from Play to Rewind Search mode.
VCR cannot be controlled	Make sure VCR LOCK is set to off. (P. 30)

If you cannot resolve the problem, please call the Customer Satisfaction Center for product assistance at 201-348-9090.

To locate an authorized servicenter call toll free 1-800-211-PANA(7262.)

Service Center List

For Product Information, Operating Assistance, Literature Request, Dealer Locations, and all Customer Service inquiries please contact: 1-800-211-PANA (7262), Monday-Friday 9 am-9 pm Saturday-Sunday 9 am-7 pm, EST.

Web Site: http://www.panasonic.com You can purchase parts, accessories or locate your nearest servicenter by visiting our Web Site.

Accessory Purchases:

1-800-332-5368 (Customer Orders Only)
Panasonic Services Company 20421 84th Avenue South, Kent, WA 98032 (6 am to 5 pm Monday - Friday; 6 am to 10:30 am saturday; PST) (Visa, MasterCard, Discover Card, American Express, Check)

Factory Servicenters Locations

CALIFORNIA

6550 Katella Avenue Cypress, CA 90630

800 Dubuque Avenue S. San Francisco, CA 94080

20201 Sherman Way Suite 102 Canoga Park, CA 91306

3878 Ruffin Road Suite A San Diego, CA 92123

COLORADO

1640 South Abilene Street Suite D Aurora, CO 80012

FLORIDA

3700 North 29th Avenue Suite 102 Hollywood, FL 33020

GEORGIA

8655 Roswell Road Suite 100 Atlanta, GA 30350

ILLINOIS

9060 Golf Road Niles, IL 60714

1703 North Randall Road Elgin, IL 60123 (Pick-up / Drop-off only)

MARYLAND

62 Mountain Road Glen Burnie, MD 21061

MASSACHUSETTS

60 Glacier Drive Suite G Westwood, MA 02090

MICHIGAN

37048 Van Dyke Avenue Sterling Heights, MI 48312

MINNESOTA

7850-12th Avenue South Airport Business Center Bloomington, MN 55425

OHIO

2236 Waycross Road Civic Center Plaza Forest Park, OH 45240

PENNSYLVANIA

2221 Cabot Blvd West Suite B Langhorne, PA 19047

Chartiers Valley Shopping Center 1025 Washington Pike Bridgeville, PA 15017

TENNESSEE

3800 Ezell Road Suite 806 Nashville, TN 37211

TEXAS

7482 Harwin Drive Houston, TX 77036

13615 Welch Road Suite 101 Farmers Branch, TX 75244

WASHINGTON

20425-84th Avenue South Kent, WA 98032

HAWAII

99-859 Iwaiwa Street Aiea, Hawaii 96701 Phone (808) 488-1996 Fax (808) 486-4369

Service in Puerto Rico

Matsushita Electric of Puerto Rico, Inc. Panasonic Sales Company/ Factory Servicenter:

Ave. 65 de Infanteria, Km. 9.5, San Gabriel Industrial Park, Carolina, Puerto Rico 00985

Phone (787)750-4300 Fax (787)768-2910

As of October '99

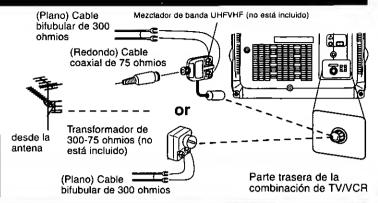
Spanish Quick Use Guide/Guía para rápida consulta

Conexión de la antena externa

Desenganche la antena del televisor o de la videograbadora que tuviera anteriormente y conéctela a la parte trasera del registrador Combinación de VCR/TV, como se muestra en el diagrama. Si el sistema de su antena tiene conductores UHF y VHF separados, usted necesita un mezclador de banda UHF/VHF (no viene con el equipo.)

ADVERTENCIA:

Al utilizar cables coaxiales RF del "Tipo tuerca", solo debe apretarse con los dedos. Si se aprieta demasiado los cables pueden resultar dañados.



Conexiones de TV cable

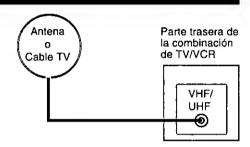
■ Sin un decodificador de TV cable

Podrá

grabar o ver canales sin codificar.

No Podrá:

- · grabar o ver canales codificados.
- ver otro canal que no sea el seleccionado para cualquier tipo de grabación.



Con un decodificador de TV cable

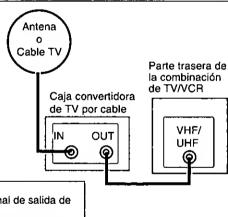
Podrá

• grabar o ver cualquier canal incluso los canales codificados.

NOTA: El canal deberá ser seleccionado en el decodificador de TV cable.

No Podrá;

- ver otro canal que no sea el seleccionado para cualquier tipo de grabación.
- hacer una grabación con temporizador de un canal a menos que lo seleccione en el decodificador de TV cable.



Para ver y grabar un canal codificado/ no codificado

Sintonice el canal del Registrador de la combinación de TV/VCR en el canal de salida de la caja convertidora de televisión por cable (por ejemple el canal 3.)

Después, seleccione en el decodificador de TV cable el canal que se quiera ver o grabar.

■ Con un receptor DSS

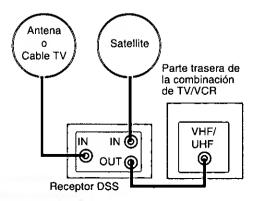
Podrá:

grabar o ver cualquier canal incluso los canales codificados.
 NOTA: El canal deberá ser seleccionado en el receptor DSS.

No Podrá;

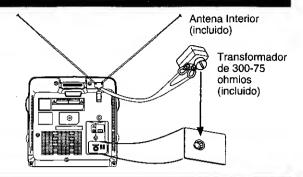
- ver otro canal que no sea el seleccionado para cualquier tipo de grabación.
- hacer una grabación con temporizador de un canal a menos que lo seleccione en el receptor DSS.

NOTA: El receptor DSS debe estar apagado para ver programas desde un decodificador de TV cable o desde la antena. Consulte el manual del receptor DSS para más detalles.



Conexión de la Antena Interior

Inserte la antena varilla (suministrada) en el receptáculo de la parte trasera de la combinación de VCR/TV. Luego, conecte los dos alambres al transformador de 300 ohmios-75 ohmios (suministrado.) Entonces, conecte el transformador ala parte transera de la combinación de VCR/TV como se muestra. Ahora, despliegue la antena y ajuste su longitud, dirección y ángulo para la más clara imagen.

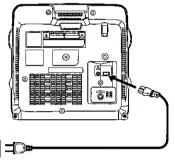


Conexión a la fuente de alimentación

Ud. podrá llevar su combinación de VCR/TV a donde ud. va con dos diferentes formas de alimentación. Ud. podrá conectar su cable de C.A. (corriente alternada) incorporado a cualquier fuente de CA. Cuando está viajando, conecte su cable para batería de coche al enchufe de su encendedor de cigarrillo. para su seguridad de uso y para evitar daños al aparato, por favor siga las instrucciones y conexiones con cuidado.

■ Conexión del cable de CA (incorporado)

- Conecte el cable de CA incorporado al enchufe de entrada CA en la parte trasera del aparato como está demostrado.
- 2. Conecte el cable de CA al enchufe de CA su pared.

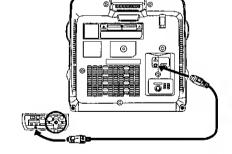


■ Conexión del cable para la batería de coche (incorporado)

- Conecte el cable para batería de coche al enchufe de entrada
 - CC en la parte trasera del aparato como está demostrado.
- 2. Arrangue su vehículo.
 - No conecte su cable al enchufe del encendedor de cigarrillo antes de arrancar su vehículo.
- 3. Desconecte el encendedor de cigarrillo y conecte el enchufe de su cable para batería.

NOTAS IMPORTANTES:

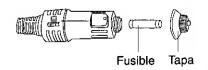
- Este cable sólo se puede usar en vehículos con batería de 12V o 24V (toma a tierra negativo.) Verifique en su manual de instrucciones de su vehículo.
- Use solamente el cable para batería de coche incorporado con su combinación de VCR/TV.
- Para evitar la disminución del voltage, no extienda el cable para batería de coche desde usando otro cable de extensión.
- Cuando no está usando el aparato, desconecte el cable para batería de coche desde el enchufe del encendedor para cigarrillo para evitar la descarga de la batería de su automovil.



Cambio del fusible de cable para

Si su fusible de seguridad se ha cortado, cambie como sigue al siguiente.

- 1. Destornille la tapa.
- 2. Cambie su fusible con otro fusible de 125V 10A.
 - Use sólo fusibles con las especificaciones correctas.
- 3. Reponga la tapa.



Spanish Quick Use Guide/Guía para rápida consulta

Para fijar el idioma, canal y reloj

Presione POWER para encender el videograbador combinado.

SELECT LANGUAGE

CH ▲ :English OPRIMIR CH ▼ :Español

VOL + :Français

Seleccione el lenguaje.

CH : para inglés CH : para español

VOL+: para francés

FIJACION AUTO. (CA/RELOJ)

CONECTE EL CABLE DE LA ANTENA Y SI ESTA USANDO UNA CAJA DE TV POR CABLE SINTONICE AL CANAL PBS DE SU LOCAL LUEGO...

POR FAVOR OPRIMIR CH UP

Comience el ajuste automático de canales y el ajuste automático del reloj.

Presione CH A.

Las siguientes informaciones aparecerán seguidamente:

AUTOPROGRAMACION EN PROCESO

AUTOPROGRAMACION COMPLETO

FIJACION AUTOMATICA DEL RELOJ **EN PROCESO**

Caso 1

6/7/2000 MAR 12:00PM HORA VERANIEGA: ACT CANAL FIJADO : CA 10

FIJACION AUTOMATICA COMPLETO

TERMINAR : OPRIMIR CH UP

Caso 2 FIJACION AUTOMATICA DEL

(Ajuste sin terminar)

(Ajuste terminado)

· Si la hora exhibida no

zona, ajuste el reloj

"Ajuste de la zona

nuevamente de

es la correcta para su

acuerdo con la sección

horaria" en la siguiente

Presione CH A

para salir.

página.

RELOJ ES INCOMPLETO

OPRIMIR ACTION PARA FIJAR EL RELOJ

NOTA IMPORTANTE PARA AJUSTE AUTOMATICO DEL RELOJ

- · El ajuste automático del reloj será realizado al volver a encender el videograbador combinado cada vez que lo apague. Si usa un decodificador de TV cable y desea que la función de ajuste automático del reloj funcione, el decodificador de TV cable debe quedar encendido y sintonizando el canal PBS en el momento en que se apaga el videograbador combinado.
- Si usa un sintonizador de TV satelital, para que funcione el ajuste automático del reloj, debe de estar apagado.
- Si usa un toma de audio/video para conectar el videograbador combinado y el decodificador de TV cable o el sintonizador de TV satelital, deberá también conectar el cable coaxial RF para poder usar las funciones de ajuste automático de reloj y ajuste automático de canal.
- Si por cualquier razón se cambiara la hora manualmente, no se podrá realizar la corrección automática de la hora.

Caso 1

Ajuste de la zona horaria.

Exhiba el MENU PRINCIPAL. Presione ACTION.

MENU PRINCÉPAL σo ELEGIR: ▲ ▼ ◀ □

Exhiba la pantalla "FIJAR RELOJ."

- Presione ▲▼◀▶ para seleccionar "RELOJ."
- Presione ACTION para exhibirla.

FIJAR RELOJ FIJACION AUTOMATICA AJUSTE ZONA HORA: 0 ELEGIR:▲ ▼ FIJAR : ■ ► TERMINAR: ACTION

Seleccione "AJUSTE ZONA HORA."

- Presione ▲▼ para seleccionar.
- Presione
 P para ajustar.

Final del ajuste.

Presione ACTION dos veces.

El valor numérico ajustado aquí se vuelve "0" una vez que ajuste manualmente el reloj.

Caso 2

El ajuste del reloj es incompleto. Ajuste el reloj manualmente.

FUACION AUTOMATICA DEL BELOJ ES INCOMPLETO

OPRIMIR ACTION PARA FIJAR EL RELOJ

Exhiba la pantalla FIJAR RELOJ.

Presione ACTION para salir de este modo.



Ajuste el reloj manualmente.

- Presione ▲▼ para seleccionar el mes.
- Presione para ajustar.
- De la misma manera, ajuste el día, el año, la hora y la hora de ahorro de energía. (VERANO)

Para hacer correcciones, presione repetidamente - para moverse hasta el error, luego corríjalo.

Final del ajuste.

Presione dos veces ACTION.

Para fijar o fijar de nuevo el reloj

En caso de que el reloj es incorrecto o ha ocurrido un corte eléctrico.

- 1 Oprima ACTION para que parezca el MENU PRINCIPAL.
- 2 Oprima ▲▼◀► para elegir "RELOJ." Luego, oprima ACTION para que aparezca la pantalla de la FIJAR RELOJ.
- 3 Oprima ▲▼ para elegir "MANUAL," y luego ► para que aparezca la pantalla de la FIJAR RELOJ.
- 4 Por favor continue con los pasos **b** y **c** de la instrucción anterior (Caso 2.)

Operaciones básicas para la reproducción

Inserte un casete.

 El videograbador combinado se enciende automáticamente.

Presione PLAY.

- La reproducción comienza automáticamente si el casete no tiene la lengüeta para prevención de grabación.
- Para encontrar una escena en particular Búsqueda hacia adelante → Presione FF Búsqueda hacia atrás → Presione REW
- Para ver en cámara lenta → Presione SLOW
- Para ver una imagen fija (congelada) → Presione PAUSE
- Para ver imágenes cuadro a cuadro → Presione SLOW en el modo de imagen fija
- Para parar → Presione STOP
- Para rebobinar la cinta → Presione REW
- Para hacer avanzar la cinta rápidamente → Presione FF
- Para expulsar la cinta → Presione STOP/ EJECT en el videograbador combinado

Operaciones básicas para la grabación

Inserte un casete con la lengüeta para prevención de grabado.

 El videograbador combinado se enciende automáticamente.

Seleccione el canal.

Presione CH ▲▼ o las teclas numéricas correspondiente.

Seleccione la velocidad de grabación. Presione SPEED.

SP = reproducción normal

LP = reproducción larga

SLP = reproducción super larga

· La velocidad seleccionada debe aparecer en la pantalla.

Comience la grabación.

Presione REC.

- · Para editar partes no deseadas de una grabación, presione PAUSE para hacer una pausa durante la grabación.
- · No podrá ver otro canal durante la grabación.
- Para parar → Presione STOP.
- El videograbador combinado deja de grabar a una hora prefijada. (Grabación de un toque)

Presione REC repetidamente para ajustar la hora de grabación (30 min - 4 horas.)

►Grabación normal → 0:30 → 1:00 4:00 ← 3:00 ← 2:00 ← 1:30 ←

Grabación con temporizador

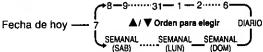
Exhiba FIJAR PROGRAMACION. Presione PROG.

· Si ya existe un programa en la memoria, presione ▲▼ y ▶ para seleccionar un número de programa sin usar.



Ajuste la fecha de grabación.

- 1) Presione ▲▼ para seleccionar.
- Presione ➤ o ◀ para ajustar.
- 1 31 = Grabación única
- DIARIO = a la misma hora de lunes a viernes
- SEMANAL = a la misma hora una vez a la semana



Repita el paso 3 para ajustar:

hora de comienzo, hora de parada, canal (o LINEA para una fuente exterior), categoría (N/O (no aplicable), DEPORTE CINE, COMEDÍA, MÚSICA, DRAMA], velocidad (SP, LP, SLP)



Haga las anotaciones necesarias.

- Si no fueran necesarias, vaya al paso 4.
- Presione A para hacerlas.
- Presione ▲▼ para seleccionar.
- Los caracteres cambiarán en el siguiente orden.
- Presione ➤ o ◀ para
- Presione PROG para finalizar.



Termine el programa. Presione PROG (a ACTION.) Para introducir más programas.

presione ▲▼ y ▶ para seleccionar y ajustar el número de programa en blanco, y luego repita los pasos 2 y 3.

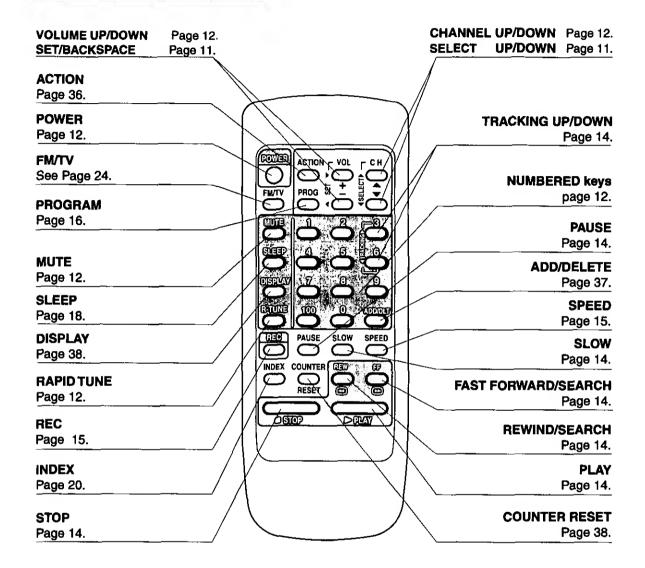
Salga de este modo.

Presione PROG dos veces (o ACTION.)

- Si está usando un decodificador de TV cable, asegúrese que se encuentra en el canal deseado y que la alimentación queda conectada para grabar con temporizador.
- El indicador PROG TIMER se enciende en el videograbador combinado.

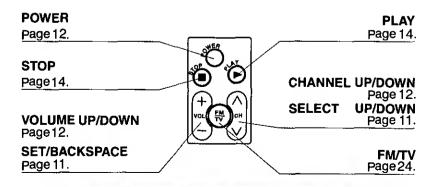
Location of Controls

Remote Control Buttons



Kitchen (Easy-Find™) Remote Control <Model PV-C930W only>

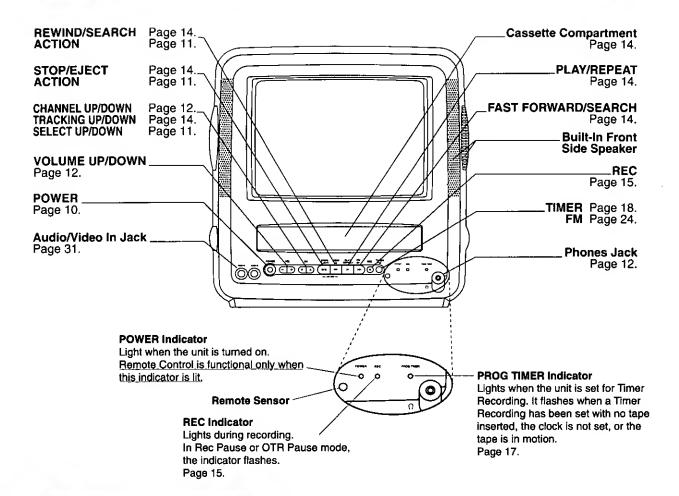
- This remote control has a magnet on the back so you can stick it to your refrigerator, etc. for convenience.
- The Kitchen remote control buttons work the same as the above remote control.



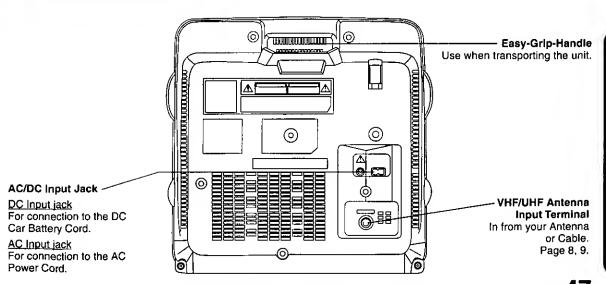
For Your Information

Location of Controls

Front View of the unit and Indicators on the Front Panel



Rear View of the unit



Warranty

Panasonic Consumer Electronics Company, Division of Matsushita Etectric Corporation of America, One Panasonic Way Secaucus, New Jersey 07094 Panasonic Sales Company, Division of Matsushita Electric of Puerto Rico, Inc. AVE. 65 de Infantería, Km. 9.5 San Gabriel Industrial Park Carolina, Puerto Rico 00985

PANASONIC Video Products Limited Warranty

Panasonic Consumer Electronics Company or Panasonic Sales Company (collectively referred to as "the Warrantor") will repair this product with new or refurbished parts, free of charge, in the USA or Puerto Rico, in the event of a defect in materials or workmanship as follows (all time periods commence from the date of the original purchase):

PRODUCT CAMCORDER	PARTS ONE (1) YEAR, EXCEPT CCD IMAGE SENSOR CCD IMAGE SENSOR - SIX (6) MONTHS	LABOR NINETY (90) DAYS NINETY (90) DAYS
VCR	ONE (1) YEAR	NINETY (90) DAYS
A/V MIXER	ONE (1) YEAR	NINETY (90) DAYS
MONITOR-VCR	ONE (1) YEAR, EXCEPT CRT CRT - TWO (2) YEARS	NINETY (90) DAYS CRT - NINETY (90) DAYS CUSTOMER PAYS ALL LABOR CHARGES AFTER 90 DAYS

Monitor-VCR In-home or carry-in Service: 22" (diagonal) CRT / LCD and Larger Monitor-VCR Carry-in Service: 21" (diagonal) CRT / LCD and smaller

Batteries (if included) - New rechargeable batteries in exchange for defective rechargeable batteries for ten (10) days. Non-rechargeable batteries are not warranted.

Tape (if included) - New video cassette tape in exchange for a defective video cassette tape for five (5) days. In-home, carry-in or mail-in service, as applicable, in the USA can be obtained during the warranty period by contacting a Panasonic Services Company (PASC) Factory Servicenter listed in the Service Directory. Or call toll free 1-800-211-PANA (7262), to locate an authorized PASC Servicenter. Carry-in or mail-in service in Puerto Rico can be obtained during the warranty period by calling the Panasonic Sales Company telephone number listed in the Servicenter Directory.

This warranty is extended only to the original purchaser. A purchase receipt or other proof of the date of the original purchase is requires before warranty service is rendered.

This warranty only covers failures due to defects in materials and workmanship which occur during normal use and does not cover normal maintenance, including, but not limited to, video and audio head cleaning. The warranty does not cover damage which occurs in shipment, or failures which are caused by products not supplied by the warrantor, or failures which result from accident, misuse, abuse, neglect, mishandling, misapplication, alteration, modification, faulty installation, set-up adjustments, improper antenna, inadequate signal pickup, maladjustment of consumer controls, improper operation, power line surge, improper voltage supply, lightning damage, commercial use such as hotel, office, restaurant, or other business or rental use of the product, or service by anyone other than a PASC Factory Servicenter or a PASC authorized Servicenter, or damage that is attributable to acts of God.

LIMITS AND EXCLUSIONS

There are no express warranties except as listed above.

THE WARRANTOR SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES (INCLUDING, WITHOUT LIMITATION, DAMAGE TO TAPES) RESULTING FROM THE USE OF THIS PRODUCTS, OR ARISING OUT OF ANY BREACH OF THE WARRANTY. ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR

PARTICULAR PURPOSE, ARE LIMITED TO THE APPLICABLE WARRANTY PERIOD SET FORTH ABOVE. Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above exclusions or limitations may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state. If a problem with this product develops during or after the warranty period, you may contact your dealer or Servicenter. If the problem is not handled to your satisfaction, then write to the Customer Satisfaction Center at the Panasonic Consumer Electronics Company address above.

SERVICE CALLS WHICH DO NOT INVOLVE DEFECTIVE MATERIALS OR WORKMANSHIP AS DETERMINED BY THE WARRANTOR, IN ITS SOLE DISCRETION, ARE NOT COVERED. COSTS OF SUCH SERVICE CALLS ARE THE RESPONSIBILITY OF THE PURCHASER. warvid 10/20/99

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